

Message Text

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ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-07 NSAE-00 TRSE-00 EUR-12

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TO USMISSION OECD PARIS PRIORITY

C O N F I D E N T I A L STATE 053209

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM, NO, PL

SUBJECT: NORWEGIAN SEISMIC DATA PROCESSING SYSTEM

TO POLAND - IL 1565

REFS: A) COCOM DOC (75)296

B) OECD PARIS 5579

1) ON BASIS OF INFORMATION RECEIVED, US TECHNICIANS BELIEVE THAT THE PROPOSED NORD 10 SYSTEM WITH SPECIAL ARRAY PROCESSOR (AP) EXCEEDS THE LIMITS OF IL 1565 NOTE 4(B) IN AT LEAST THE FOLLOWING TWO RESPECTS IN ADDITION TO THE PDR: THE 16 MBITS UNIT CAPACITY OF THE INCLUDED DRUMS EXCEEDS THE AVERAGE ACCESS TIME FACTOR OF 8. ALSO THE TOTAL NUMBER OF ACCESSES OF TWO SUCH DRUMS IS 200 VERSUS THE NOTE 4 LIMIT OF 150.

2) IN ADDITION, US WOULD APPRECIATE ADDITIONAL INFORMATION CONCERNING THE FOLLOWING:

(A) IS THE 1.6 MBITS/SEC TRANSFER RATE CITED FOR THE INCLUDED DRUMS THE MAXIMUM OR EFFECTIVE DATA TRANSFER

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RATE FOR THIS DEVICE?

(B) THE CPU HAS A THREE-PART MEMORY WITH 490 MSEC CYCLE TIME FOR THE MOS CIRCUITRY. IT WOULD BE HELPFUL IF THE CPU BUS RATE WERE PROVIDED WITH SOME INFORMATION SHOWING HOW THIS WAS OBTAINED.

(C) THE NORD 10 SYSTEM PDR WAS CITED IN REF. B AS 27.2 MBITS/SEC. HOW WAS THIS NUMBER COMPUTED? US AUTHORITIES ARE NOT CERTAIN IF THIS IS FOR THE CPU, THE AP OR BOTH.

(D) ARE ANY GRAPHIC DISPLAY DEVICES INCLUDED? IF SO, WHAT ARE THE PERTINENT PERFORMANCE CHARACTERISTICS?

(E) IS THE NORD 10 MICROPROGRAMMABLE BY THE USER? IF SO, UNDER WHAT CONDITIONS AND WHAT OPTIONAL ELEMENTS ARE REQUIRED?

(F) WHAT IS THE DATA TRANSFER RATE BETWEEN THE NORD 1U CPU AND THE AP?

(G) WHAT IS THE AP EXECUTION TIME REQUIRED FOR A 1024 POINT CONVOLUTION WITH A 32 POINT OPERATOR?

(H) IS THE NORD AP USEFUL FOR SIGNAL PROCESSING APPLICATIONS OTHER THAN SEISMIC DATA REPRODUCTION?

3) USDEL SHOULD CONTINUE RESERVE PENDING RECEIPT OF INFORMATION REQUESTED ABOVE. TO ENABLE MORE RAPID TECHNICAL REVIEWS OF THIS AND SIMILAR PROPOSALS, TECHNICIANS SUGGEST THAT COMPUTER SYSTEM DESCRIPTIONS INCLUDE A CONFIGURATION DIAGRAM AND IL 1565 PERFORMANCE CHARACTERISTICS. INGERSOLL

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Message Attributes

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